

CLAIMS

1. A mobile communications terminal for use in a cellular communications system, comprising
- 5 an electronic circuit (200) for receiving a wire-less communications signal carrying signal channels having processing means for extracting the signal channels, characterized in that
- 10 the electronic circuit (200) is adapted to classify a type of interference, affecting the communications quality, by evaluating signals selected in the electronic circuit that are selected as signals having information for classifying a type of interference in one of at least two predetermined classes of interference.
- 15 2. A mobile communications terminal according to claim 1, characterized in that a first class of interference includes inter-cell interference and that a second class of interference includes intra-cell interference.
- 20 3. A mobile communications terminal according to any one of claims 1 and 2, characterized in that the mobile communications terminal comprises first means (204) with selected signals for adaptively regulating the amplitude of signals processed by the electronic circuit.
- 25 4. A mobile communications terminal according to claim 3, characterized in that the first means (204) includes Automatic Gain Control means.
5. A mobile communications terminal according to any one of claims 3 and 4, characterized in that the first means includes means (210) with selected signals for

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6. A mobile communications terminal according to any one of claims 1 through 5, characterized in that the mobile communications terminal comprises second means with selected signals for monitoring the communications quality (210).

8. A mobile communications terminal according to any one of claims 6 and 7, characterized in that the second means
15 includes means (210;603) for monitoring the signal-to-interference ratio, SIR, of the received signal.

10. A mobile communications terminal according to any one
25 of claims 1 through 9, characterized in that the mobile
communications terminal comprises filter means (604) for
processing the communication signal by means of a set of
filter coefficients (α) selected in dependence of a
classified type of interference.

30 11. A mobile communications terminal according to claim
10, characterized in that the filter means is a low-pass

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filter (604); wherein the filter has a relatively high
band-width when interference is classified to be intra-
cell interference and has a relatively low band-width
when interference is classified to be inter-cell
5 interference.

12. In a mobile communications terminal adapted for use
in a cellular communications system a method comprising
the steps of:

receiving a wire-less communications signal carrying
10 signal channels and extracting the signal channels by
means of an electronic circuit;

characterized in further comprising the step of:

classifying a type of interference, affecting the
communications quality, by evaluating signals selected in
15 the electronic circuit as signals having information for
classifying a type of interference in one of at least two
predetermined classes of interference.

13. A method according to claim 12 characterized in that
the a first class includes intercell interference and
20 that a second class includes intracell interference.

14. A method according to any one of claims 12 and 13
characterized in that the method further comprises the
step of processing the communication signal in a first of
at least two ways (A1;A2); the first way being selected
25 from the at least two ways in dependence of a classified
type of interference.

15. A method according to any one of claims 12 through 14
characterized in that the method further comprises the
step of filtering the communication signal with a low-
30 pass filter; wherein the filter has a relatively high

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band-width when interference is classified to be intra-cell interference and has a relatively low band-width when interference is classified to be inter-cell interference.

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